

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
PHASE 1 + 5	←G-	←G-	←G-	R	R	←G-	←G-	←G-	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 + 5 CHANGE	THE CONTROLLER MAY SKIP TO PHASES 1 + 6 OR 2 + 5 OR 2 + 6																					
PHASE 1 + 6	←G-	←G-	←G-	G	G	←R-	←R-	←R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
1 + 6 CHANGE	←Y-	←Y-	←Y-	G	G	←R-	←R-	←R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 + 5	←R-	←R-	←R-	R	R	←G-	←G-	←G-	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
2 + 5 CHANGE	←R-	←R-	←R-	R	R	←Y-	←Y-	←Y-	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 2 + 6	←R-	←R-	←R-	G	G	←R-	←R-	←R-	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW
PED CLEAR	←R-	←R-	←R-	G	G	←R-	←R-	←R-	G	G	R	R	R	R	R	R	FL/DW	FL/DW	FL/DW	FL/DW	DW	DW
2 + 6 CHANGE	←R-	←R-	←R-	Y	Y	←R-	←R-	←R-	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 3	←R-	←R-	←R-	R	R	←R-	←R-	←R-	R	R	←G-	←G-	G	R	R	R	DW	DW	DW	DW	DW	DW
3 CHANGE	←R-	←R-	←R-	R	R	←R-	←R-	←R-	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW
PHASE 4	←R-	←R-	←R-	R	R	←R-	←R-	←R-	R	R	R	R	R	←G-	←G-	G	DW	DW	DW	DW	DW	DW
4 CHANGE	←R-	←R-	←R-	R	R	←R-	←R-	←R-	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	←R-	←R-	←R-	R	R	←R-	←R-	←R-	R	R	R	R	R	←G-	←G-	G	DW	DW	DW	DW	WK	WK
PED CLEAR	←R-	←R-	←R-	R	R	←R-	←R-	←R-	R	R	R	R	R	G	←G-	G	DW	DW	DW	DW	FL/DW	FL/DW
4 ALT CHANGE	←R-	←R-	←R-	R	R	←R-	←R-	←R-	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/←R	FL/←R	FL/←R	FL/Y	FL/Y	FL/←R	FL/←R	FL/←R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 40 (BALTIMORE NATIONAL PIKE) AND ROLLING ROAD IN BALTIMORE COUNTY. US 40 (BALTIMORE NATIONAL PIKE) IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

THIS PROJECT INVOLVES PROVIDING A SIDE STREET SPLIT PHASE FOR ROLLING ROAD, AND CONVERT THE LEAD LAG LEFT TURNS ON US 40 TO STANDARD LEFT TURN PHASING.

II. INTERSECTION OPERATION

- THE INTERSECTION IS TO OPERATE IN A NEMA EIGHT-PHASE, FULLY-ACTUATED MODE, WITH THE US 40 (BALTIMORE NATIONAL PIKE) APPROACHES TO RUN CONCURRENTLY. EXCLUSIVE LEFT TURN PHASES SHALL BE MODIFIED TO LEAD LEFT TURNS FOR BOTH APPROACHES OF US 40 (BALTIMORE NATIONAL PIKE). A PEDESTRIAN PHASE WITH PUSHBUTTON ACTUATION SHALL REMAIN IN OPERATION ACROSS THE WEST LEG OF US 40 (BALTIMORE NATIONAL PIKE). THE PEDESTRIAN PHASES ACROSS ROLLING ROAD SHALL REMAIN ON RECALL. SPLIT PHASING SHALL BE PROVIDED FOR ROLLING ROAD.
- A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH ALL NECESSARY EQUIPMENT HOUSED IN A NEMA SIZE "6" BASE-MOUNTED CABINET SHALL REMAIN IN OPERATION AT THIS INTERSECTION.

III. SPECIAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLES TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

MR. DAVID J. MALKOWSKI
DISTRICT ENGINEER
PHONE: (410) 321-2810

MR. RANDALL SCOTT
ASSISTANT DISTRICT
ENGINEER - TRAFFIC
PHONE: (410) 321-2781

MR. SUENETTE POPE
UTILITY ENGINEER
PHONE: (410) 321-2841

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
(410) 787-7676

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF -
TRAFFIC OPERATIONS
(410) 787-7630

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
(410) 787-7650

(SIGNAL SHOP WAREHOUSE)
(410) 787-7668

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA

ITEM NO.	QUANTITY	DESCRIPTION
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EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR:

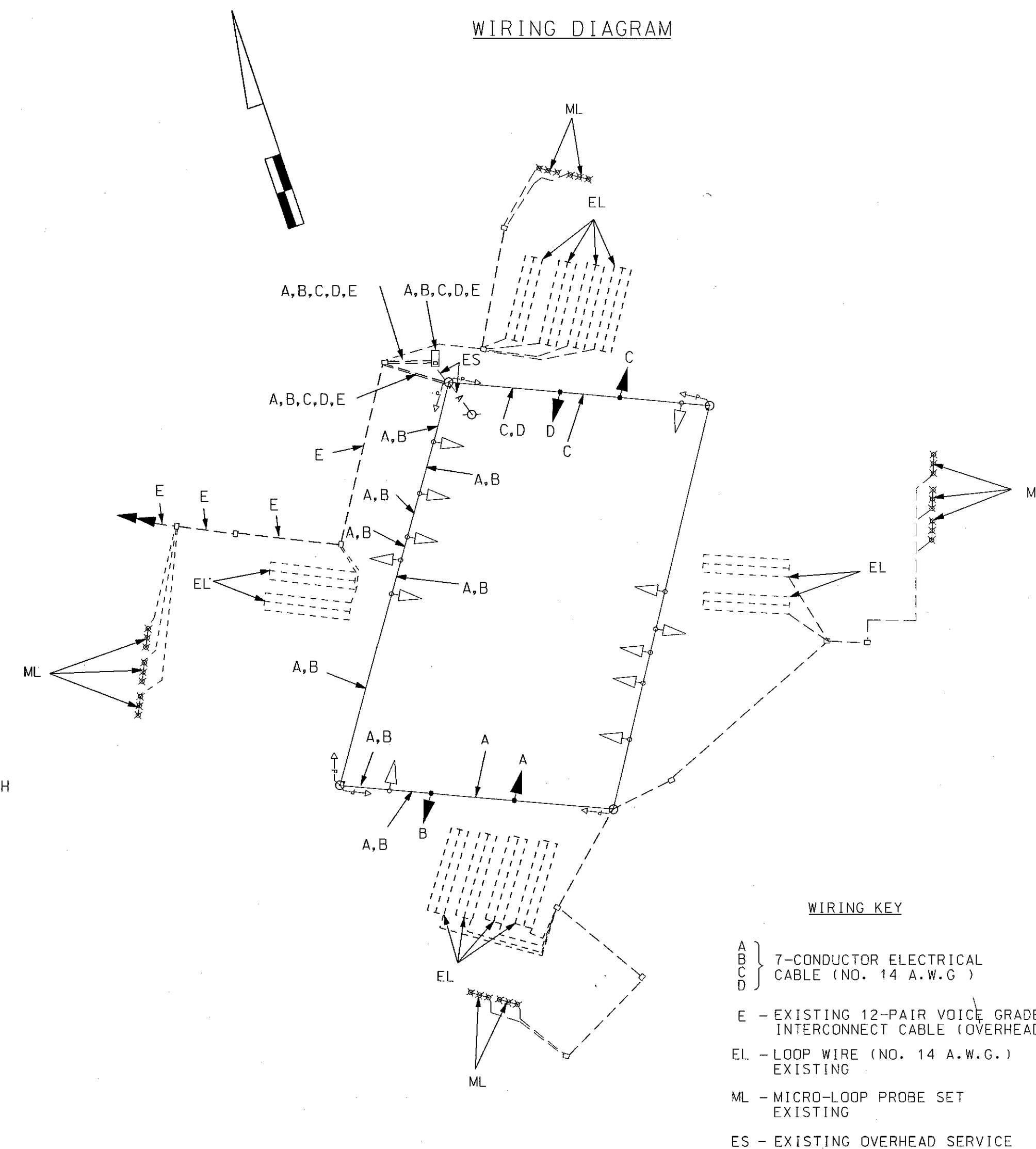
ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
5001	150 L.F.	FURNISH AND INSTASLL 5" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
5005	150 L.F.	REMOVAL OF EXISTING PAVEMENT LINE MARKINGS - ANY WIDTH
8007	1 EACH	ADJUST EXISTING SPAN WIRE.
8013	1 EACH.	REMOVE AND DESPOSE MATERIAL AND EQUIPMENT PER ASSIGNMENT.
8052	6 EACH	FURNISH AND INSTALL 8 INCH VEHICLE SIGNAL HEAD SECTION (BLACK FACE).
8053	10 EACH	FURNISH AND INSTALL 12 INCH VEHICLE SIGNAL HEAD SECTION (BLACK FACED).
8059	925 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7941 CONNELLY DRIVE, HANOVER, MARYLAND 21076.

NOTE: 1. ALL EQUIPMENT TO BE REMOVED AND NOT LISTED ABOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR

WIRING DIAGRAM



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

US 40 & ROLLING ROAD



CENTURY ENGINEERING
50 Scott Adam Road
Suite 103
Cockeysville, MD 21030
410-683-1683

DRAWN BY: D.L.A.	F.A.P. NO.: AC-STPG-000S(857)E	TS NO.	SHEET NO.
CHECKED BY: D.L.A.	S.H.A. NO.: 100105	TS-284gi-G	
SCALE: NONE	COUNTY: BALTIMORE	T.M.S. NO.	
DATE: 4/03	LOG MILE: 03004001.60	F-632X	2 OF 2